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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**APPEAL FROM THE EXAMINER TO THE BOARD
OF PATENT APPEALS AND INTERFERENCES**

In re Application of: Joubert BERGER *et al.*
Serial No.: 10/013,043
Filing Date: October 30, 2001
Group Art Unit: 2191
Examiner: Zhen, Wei Y
Title: SYSTEM AND METHOD FOR INSTALLING
APPLICATIONS IN A TRUSTED ENVIRONMENT
Docket No.: 10013500-1

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AMENDED APPEAL BRIEF

Applicants have appealed to the Board of Patent Appeals and Interferences from the decision of the Examiner mailed June 13, 2005, finally rejecting Claims 1-25. Applicants filed a Notice of Appeal on July 28, 2005, and Applicants filed an Appeal Brief on September 28, 2005. Applicants respectfully submit herewith this amended Appeal Brief in response to the Notice of Non-Compliance mailed December 23, 2005. No fee is believed due with this Amended Appeal Brief.

REAL PARTY IN INTEREST

The present application was assigned to Hewlett-Packard Company as indicated by an assignment from the inventor recorded on April 15, 2002 in the Assignment Records of the United States Patent and Trademark Office at Reel 012824, Frame 0138. The present application was subsequently assigned to Hewlett-Packard Development Company, L.P. as indicated by an assignment from Hewlett-Packard Company recorded on September 30, 2003 in the Assignment Records of the United States Patent and Trademark Office at Reel 014061, Frame 0492.

RELATED APPEALS AND INTERFERENCES

There are no known appeals or interferences that will directly affect or be directly affected by or have a bearing on the Board's decision in this pending appeal.

STATUS OF CLAIMS

Claims 1-25 stand rejected pursuant to a Final Office Action mailed June 13, 2005. Claims 1-25 are presented for appeal.

STATUS OF AMENDMENTS

No amendment has been filed subsequent to the mailing of the Final Office Action.

SUMMARY OF CLAIMED SUBJECT MATTER

Embodiments of the present invention as defined by independent Claim 1 are directed toward a method for installing an application (120) in a trusted operating system (100) comprising enabling selection of an application (120) from one or more applications (120), enabling dragging of a graphical representation of the selected application (120) towards a graphical representation of a compartment (140, 141, 142, 143, 144, 145, 146, 147) of the trusted operating system (100), enabling dropping of the graphical representation of the application (120) on the graphical representation of the compartment (140, 141, 142, 143, 144, 145, 146, 147) and automatically installing the

selected application (120) in the selected compartment (140, 141, 142, 143, 144, 145, 146, 147) in response to the dropping of the graphical representation of the selected application (120). (at least at page 3, lines 19-32; page 5, lines 20-32; page 6, lines 12-22; page 7, lines 1-31; page 8, lines 1-20; page 9, lines 1-8 and 22-31; page 10, lines 1-23; and figures 1, 2A-2D and 3).

Embodiments of the present invention as defined by independent Claim 12 are directed toward a method for installing an application (120) in a compartment-based trusted operating system (100) comprising displaying a graphical representation of a plurality of compartments (140, 141, 142, 143, 144, 145, 146, 147) of the trusted operating system (100), enabling dragging of a graphical representation of the application (120) towards a graphical representation of a compartment (140, 141, 142, 143, 144, 145, 146, 147) of the plurality of compartments(140, 141, 142, 143, 144, 145, 146, 147), enabling dropping of the graphical representation of the application (120) on the graphical representation of the compartment (140, 141, 142, 143, 144, 145, 146, 147) and automatically installing the application (120) in the selected compartment (140, 141, 142, 143, 144, 145, 146, 147) in response to the dropping of the graphical representation of the compartment (140, 141, 142, 143, 144, 145, 146, 147). (at least at page 3, lines 19-32; page 5, lines 20-32; page 6, lines 12-22; page 7, lines 1-31; page 8, lines 1-20; page 9, lines 1-8 and 22-31; page 10, lines 1-23; and figures 1, 2A-2D and 3).

Embodiments of the present invention as defined by independent Claim 17 are directed toward a graphical software installation tool (102) for installing an application (120) in a trusted operating system (100) comprising a graphical user interface (110) comprising a display portion (116) displaying at least one compartment (140, 141, 142, 143, 144, 145, 146, 147) of the trusted operating system (100) and an application portion (114) comprising a graphical representation of at least one application (120), the graphical representation of the at least one application (120) operable to be dragged from the application portion (114) to the display portion (116), wherein dropping of the graphical representation of the at least one application (120) on a graphical representation

of the at least one compartment (140, 141, 142, 143, 144, 145, 146, 147) causes automatic installation of the application (120) in the compartment (140, 141, 142, 143, 144, 145, 146, 147). (at least at page 3, lines 19-32; page 5, lines 20-32; page 6, lines 12-22; page 7, lines 1-31; page 8, lines 1-20; page 9, lines 1-8 and 22-31; page 10, lines 1-23; and figures 1, 2A-2D and 3).

Embodiments of the present invention as defined by independent Claim 22 are directed toward a method for installing an application (120) in a trusted operating system (100) comprising enabling selection of an application (120) from one or more applications (120), enabling association of the selected application (120) with a compartment (140, 141, 142, 143, 144, 145, 146, 147) of the trusted operating system (100) and automatically installing the selected application (120) in the selected compartment (140, 141, 142, 143, 144, 145, 146, 147) in response to the association of the selected application (120) with the selected compartment (140, 141, 142, 143, 144, 145, 146, 147). (at least at page 3, lines 19-32; page 5, lines 20-32; page 6, lines 12-22; page 7, lines 1-31; page 8, lines 1-20; page 9, lines 1-8 and 22-31; page 10, lines 1-23; and figures 1, 2A-2D and 3).

GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

1. Claims 1-3, 6-7, 9-19, and 21-24 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,687,745 issued to Franco et al. (hereinafter “*Franco*”).

2. Claims 4-5, 20 and 25 were rejected under 35 U.S.C. § 103(a) as being unpatentable over *Franco* in view of U.S. Patent No. 6,550,061 issued to Bearden et al (hereinafter *Bearden*).

3. Claim 8 was rejected under 35 U.S.C. §103(a) as being unpatentable over *Franco* in view of U.S. Patent No. 6,795,963 issued to Andersen et al. (hereinafter “*Andersen*”).

ARGUMENT

A. Standard

1. 35 U.S.C. § 102

Under 35 U.S.C. § 102, a claim is anticipated only if each and every element as set forth in the claim is found in a single prior art reference. *Verdegaal Bros. v. Union Oil Co. of California*, 2 U.S.P.Q.2d 1051 (Fed. Cir. 1987); M.P.E.P. § 2131. In addition, “[t]he identical invention must be shown in as complete detail as is contained in the . . . claims” and “[t]he elements must be arranged as required by the claim.” *Richardson v. Suzuki Motor Co.*, 9 U.S.P.Q.2d 1913, 1920 (Fed. Cir. 1989); *In re Bond*, 15 U.S.P.Q.2d 1566 (Fed. Cir. 1990); M.P.E.P. § 2131.

2. 35 U.S.C. § 103

To establish a *prima facie* case of obviousness under 35 U.S.C. § 103, three basic criteria must be met: First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings; second, there must be a reasonable expectation of success; and finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. *In re Vaeck*, 947 F.2d 488, (Fed. Cir. 1991); M.P.E.P. § 2143. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art, and not based on applicant’s disclosure. *Id.* Further, the mere fact that references can be combined or modified does not render the resultant combination obvious unless the prior art also suggests the desirability of the combination. *In re Mills*, 916 F.2d 680 (Fed. Cir. 1990); M.P.E.P. § 2143.01. Additionally, not only must there be a suggestion to combine the functional or operational aspects of the combined references, but also the prior art is required to suggest both the combination of elements and the structure resulting from the combination. *Stiftung v. Renishw PLC*, 945 F.2d 1173, 1183 (Fed. Cir. 1991). Moreover, where there is no apparent disadvantage present in a particular prior art reference, then generally there can be no motivation to combine the teaching of another

reference with the particular prior art reference. *Winner Int'l Royalty Corp. v. Wang*, 202 F.3d 1340, 1349 (Fed. Cir. 2000).

B. Argument

1. First Ground of Rejection (Claims 1-3, 6-7 and 9-19 and 21)

Claims 1-3, 6-7 and 9-19 and 21 were rejected under 35 U.S.C. § 102(e) as being anticipated by *Franco*. Of these claims, Claims 1, 12 and 17 are independent. Applicants respectfully submit that each independent claim is patentable over the *Franco* reference, and thus remaining Claims 2, 3, 6, 7, 9-11, 13-16, 18, 19 and 21 which depend from their respective independent claims, are also patentable.

Embodiments of the present invention generally involve a system and method for installing an application (120) in a trusted operating system (100). For example, according to one embodiment of Applicants' invention, the trusted operating system (100) comprises separate compartments (140, 141, 142, 143, 144, 145, 146, 147) where communications are controlled between the different compartments (140, 141, 142, 143, 144, 145, 146, 147) such that by installing applications (120) in the separate compartments (140, 141, 142, 143, 144, 145, 146, 147), containment provided by the compartments (140, 141, 142, 143, 144, 145, 146, 147) reduces an application's (120) exposure to attack and/or limits the damage in the event of an attack (at least at page 3, lines 19-30; page 5, lines 20-32; and figures 1 and 2A-2D). In some embodiments of Applicants' invention, a graphical software installation tool (102) having a graphical user interface (110) is used to associate a particular application (120) with a selected compartment (140, 141, 142, 143, 144, 145, 146, 147) such that as a result of such association, the tool (102) automatically performs various tasks to automatically install the application (120) into the selected compartment (140, 141, 142, 143, 144, 145, 146, 147) (at least at page 6, lines 12-22; page 7, lines 1-16; page 8, lines 3-20; and figures 1, 2A-2D and 3). For example, in one embodiment of Applicants' invention, an application (120) is automatically installed into a selected compartment (140, 141, 142, 143, 144, 145, 146, 147) as a result of a user selecting the application (120) from a pull down menu

associated with a control area (112) of the interface (110) and selecting a desired compartment (140, 141, 142, 143, 144, 145, 146, 147) for the application (120) from another pull down menu associated with a control area (112) of the interface (110) (at least at page 7, lines 1-7; page 10, lines 1-7; and figures 1, 2A-2D and 3). In another embodiment of Applicants' invention, an application (120) is automatically installed into a selected compartment (140, 141, 142, 143, 144, 145, 146, 147) as a result of a user selecting a graphical representation of the application (120) displayed in an application area (114) of the interface (110) and dragging and dropping the graphical representation of the application (120) onto a graphical representation of the compartment (140, 141, 142, 143, 144, 145, 146, 147) displayed in a display area (116) of the interface (110) (at least at page 7, lines 1-7; page 8, lines 3-14; page 9, lines 22-31; and figures 1, 2A-2D and 3). Accordingly, for example, independent Claim 1 recites "enabling selection of an application from one or more applications," "enabling dragging of a graphical representation of said selected application towards a graphical representation of a compartment of said trusted operating system," "enabling dropping of said graphical representation of said application on said graphical representation of said compartment" and "automatically installing said selected application in said selected compartment in response to said dropping of said graphical representation of said selected application."

In the Final Office Action, the Examiner refers to column 5, lines 10-17, column 19, line 64, to column 20, line 14, column 6, lines 25-30 and 65-67, and column 8, lines 42-46 and 57-67, of *Franco* as purportedly disclosing a system enabling dragging of a graphical representation of a selected application towards, and dropping that graphical representation on, a graphical representation of a compartment of a trusted operating system (Office Action, pages 3 and 4). Applicants respectfully disagree. *Franco* appears to disclose a system for storing an interactive link on a client computer to a remote resource (*Franco*, abstract, column 5, lines 10-17). *Franco* also appears to disclose that the link to the remote resource may comprise a graphical element or representation, such as on a desktop, such that a user may select the element to initiate communications with the remote resource (*Franco*, column 20, lines 1-15). However, *Franco* does not disclose

or even suggest “a graphical representation of a compartment of a trusted operating system” (emphasis added) as recited by Claim 1, nor does the Examiner explicitly identify any such disclosure in *Franco*.

In support of the Examiner’s position that *Franco* purportedly discloses “a trusted operating system” having “compartment[s]” as recited by Claim 1, the Examiner appears to refer to the “droplets” of *Franco* (Final Office Action, page 3). In this regard, *Franco* recites:

Initially, droplets™ 64 execute as the informational content 36 containing the links 62 and droplets™ 64, e.g., the document 60 containing the link 68 and the droplet 70, is delivered to the client computer 20. That is, the droplet 70 executes and notifies the droplet presentation client 25 that it has been loaded to the client computer 20. Next, the droplet 70 cooperates with the droplet presentation client 25 and the operating system software 80 of the client computer 20 to establish the communication connection 54 to the application server 40.

(*Franco*, column 8, lines 37-46). *Franco* also recites:

In accordance with the present invention, droplets™ (e.g., the droplets 64 and 70) are dynamic and “thin” applications. That is, the droplets™ generally include information identifying the operating environment on the client computer 20, the application server 40 to connect with and an application on the server 40 that is run to deliver the requested functionality to the client computer 20 once the connection is made.

(*Franco*, column 8, lines 56-63). Thus, the Examiner appears to indicate that because the droplets of *Franco* have some information about the “operating environment” of the client computer 20 of *Franco* and/or otherwise cooperate with “operating system software” on the client computer 20 of *Franco*, such “operating environment” is necessarily a “trusted operating system” having “compartment[s]” as recited by Claim 1. Applicants respectfully disagree. The mere recitation in *Franco* referred to by the Examiner of an “operating environment” and “operating system software” on the client of

Franco, without more, does not rise to the level of a “trusted operating system” having “compartment[s]” as recited by Claim 1. To the contrary, *Franco* does not appear to disclose or even suggest any type of compartment-based communication control for establishing a “trusted operating system.” Therefore, for at least these reasons, Applicants respectfully submit that *Franco* does not anticipate Claim 1.

Independent Claim 12 recites “displaying a graphical representation of a plurality of compartments of said trusted operating system,” “enabling dragging of a graphical representation of said application towards a graphical representation of a compartment of said plurality of compartments,” “enabling dropping of said graphical representation of said application on said graphical representation of said compartment” and “automatically installing said application in said selected compartment [of the trusted operating system] in response to said dropping of said graphical representation of said compartment” (emphasis added), and independent Claim 17 recites “a graphical user interface” comprising “a display portion displaying at least one compartment of said trusted operating system” and “an application portion comprising a graphical representation of at least one application, said graphical representation of said at least one application operable to be dragged from said application portion to said display portion, wherein dropping of said graphical representation of said at least one application on a graphical representation of said at least one compartment causes automatic installation of said application in said compartment [of the trusted operating system]” (emphasis added). At least for the reasons discussed above in connection with independent Claim 1, Applicants respectfully submit that *Franco* does not anticipate Claims 12 and 17.

Accordingly, for at least the reasons discussed above, independent Claims 1, 12 and 17 are clearly patentable over *Franco*. Therefore, Claims 1, 12 and 17, and Claims 2, 3, 6, 7, 9-11, 13-16, 18, 19 and 21 that depend respectively therefrom, are in condition for allowance.

2. First Ground of Rejection (Claims 22-24)

Claims 22-24 were rejected under 35 U.S.C. § 102(e) as being anticipated by *Franco*. Of these claims, Claim 22 is independent. Applicants respectfully submit that independent Claim 22 is patentable over the *Franco* reference, and thus remaining Claims 23 and 24 which depend from independent Claim 22 are also patentable.

Independent Claim 22 recites “enabling selection of an application from one or more applications,” “enabling association of said selected application with a compartment of the trusted operating system” and “automatically installing said selected application in said selected compartment [of the trusted operating system] in response to said association of said selected application with said selected compartment” (emphasis added). As discussed above in connection with independent Claims 1, 12 and 17, *Franco* does not disclose or even suggest any type of controlled and/or isolated communications rising to the level of a “trusted operating system” as recited by Claim 22. Further, as discussed above in connection with independent Claims 1, 12 and 17, *Franco* does not disclose or even suggest a “compartment” of a “trusted operating system” or “automatically installing [a] selected application in [the] selected compartment” in response to “associat[ing] [the] application with [the] compartment” as recited by Claim 22 (emphasis added). To the contrary, the mere recitation in *Franco* referred to by the Examiner of an “operating environment” and “operating system software” on the client of *Franco*, without more, does not rise to the level of a “trusted operating system” or a “compartment” of a trusted operating system as recited by Claim 22. Nor does the mere recitation in *Franco* referred to by the Examiner of an “operating environment” and “operating system software” on the client of *Franco* rise to the level of “automatically installing [a] selected application in [the] selected compartment [of a trusted operating system]” as recited by Claim 22 (emphasis added). Accordingly, for at least this reason, Applicants respectfully submit that independent Claim 22, and Claims 23 and 24 that depend therefrom, are not anticipated by *Franco*.

3. Second Ground of Rejection (Claims 4, 5, 20 and 25)

Claims 4, 5, 20 and 25 were rejected under 35 U.S.C. § 103(a) as being unpatentable over *Franco* in view of *Bearden*. Claims 4, 5, 20 and 25 depend respectively from independent Claims 1, 17 and 22. As discussed above, independent Claims 1, 17 and 22 are allowable over the cited *Franco* reference. For example, *Franco* does not disclose or even suggest any type of controlled and/or isolated communications rising to the level of a “trusted operating system” as recited by respective independent Claims 1, 17 and 22. Further, *Franco* does not disclose or even suggest: 1) a “compartment” of a trusted operating system; 2) “a graphical representation of a compartment” of a trusted operating system; or 3) “automatically installing [a] selected application in [the] selected compartment” in response to dropping and/or otherwise associating the selected application with the compartment as recited by respective independent Claims 1, 17 and 22. Moreover, *Bearden* does not remedy, nor has the Examiner relied on *Bearden* to remedy, at least the deficiencies of *Franco* discussed above. Therefore, Applicants respectfully submit that Claims 4, 5, 20 and 25 are also in condition for allowance.

4. Third Ground of Rejection (Claim 8)

Claim 8 was rejected under 35 U.S.C. § 103(a) as being unpatentable over *Franco* in view of *Andersen*. Claim 8 depends from independent Claim 1. As discussed above, independent Claim 1 is allowable over the cited *Franco* reference. For example, *Franco* does not disclose or even suggest any type of controlled and/or isolated communications rising to the level of a “trusted operating system” as recited by independent Claim 1. Further, *Franco* does not disclose or even suggest: 1) a “compartment” of a trusted operating system; 2) “a graphical representation of a compartment” of a trusted operating system; or 3) “automatically installing [a] selected application in [the] selected compartment” in response to dropping and/or otherwise associating the selected application with the compartment as recited by independent Claim 1. Moreover, *Andersen* does not remedy, nor has the Examiner relied on *Andersen* to remedy, at least

the deficiencies of *Franco* discussed above. Therefore, Applicants respectfully submit that Claim 8 is also in condition for allowance.

CONCLUSION

Applicants have demonstrated that the present invention as claimed is clearly distinguishable over the art cited of record. Therefore, Applicants respectfully request the Board of Patent Appeals and Interferences to reverse the final rejection of the Examiner and instruct the Examiner to issue a notice of allowance of all claims.

No fee is believed due with this Amended Appeal Brief. If, however, Applicants have overlooked the need for any fee, the Commissioner is hereby authorized to charge any fees or credit any overpayments to Deposit Account No. 08-2025 of Hewlett-Packard Company.

Respectfully submitted,



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CLAIMS APPENDIX

1. A method for installing an application in a trusted operating system, comprising:

enabling selection of an application from one or more applications;

enabling dragging of a graphical representation of said selected application towards a graphical representation of a compartment of said trusted operating system;

enabling dropping of said graphical representation of said application on said graphical representation of said compartment; and

automatically installing said selected application in said selected compartment in response to said dropping of said graphical representation of said selected application.

2. The method of claim 1, further comprising:

automatically determining one or more supporting resources associated with said selected application;

automatically retrieving said supporting resources; and

automatically installing said supporting resources within said selected compartment.

3. The method of claim 1, further comprising:

automatically determining access controls for one or more files associated with said selected application; and

automatically setting said determined access controls for said one or more files.

4. The method of claim 3, further comprising displaying said access controls along with the files with which said access controls are associated.

5. The method of claim 3, further comprising modifying said access controls in response to a user input.

6. The method of claim 2, wherein said automatically determining one or more supporting resources comprises automatically selecting one or more library files.

7. The method of claim 2, wherein said automatically determining one or more supporting resources comprises automatically selecting one or more configuration files.

8. The method of claim 2, wherein said automatically determining one or more supporting resources comprises querying an executable file of said selected application to automatically determine said one or more supporting resources associated with said application.

9. The method of claim 3, wherein said automatically determining access controls comprises automatically determining access controls for at least one of said files based at least in part on the type of the file.

10. The method of claim 3, wherein said automatically determining access controls comprises automatically determining access controls for at least one of said files based at least in part on the location of the file.

11. The method of claim 1, wherein said enabling dropping of said graphical representation of said application on said graphical representation of said compartment comprises enabling dropping of said graphical representation of said application in close proximity to said graphical representation of said compartment.

12. A method for installing an application in a compartment-based trusted operating system, comprising:

displaying a graphical representation of a plurality of compartments of said trusted operating system;

enabling dragging of a graphical representation of said application towards a graphical representation of a compartment of said plurality of compartments;

enabling dropping of said graphical representation of said application on said graphical representation of said compartment; and

automatically installing said application in said selected compartment in response to said dropping of said graphical representation of said compartment.

13. The method of claim 12, further comprising:
automatically determining one or more supporting resources associated with said application;
automatically retrieving said supporting resources; and
automatically installing said supporting resources within said selected compartment.

14. The method of claim 12, further comprising:
automatically determining access controls for one or more files associated with said selected application; and
automatically setting said determined access controls for said one or more files.

15. The method of claim 14, further comprising assigning a compartment label unique to said compartment to each of said supporting resources.

16. The method of claim 12, wherein said enabling dropping of said graphical representation of said application on said graphical representation of said compartment comprises enabling dropping of said graphical representation of said application in close proximity to said graphical representation of said compartment.

17. A graphical software installation tool for installing an application in a trusted operating system, comprising:

a graphical user interface, comprising:
a display portion displaying at least one compartment of said trusted operating system; and
an application portion comprising a graphical representation of at least one application, said graphical representation of said at least one application operable to be dragged from said application portion to said display portion, wherein dropping of said graphical representation of said at least one application on a graphical representation of said at least one compartment causes automatic installation of said application in said compartment.

18. The graphical software installation tool of claim 17, further comprising:
means for automatically determining one or more supporting resources associated
with said at least one application;

means for automatically retrieving said supporting resources; and
means for automatically installing said supporting resources within said at least
one compartment.

19. The graphical software installation tool of claim 17, further comprising:
means for automatically determining access controls for one or more files
associated with said at least one application; and

means for automatically setting said determined access controls for said one or
more files.

20. The graphical software installation tool of claim 19, further comprising:
means for displaying said access controls along with the files with which said
access controls are associated; and

means for modifying said access controls in response to a user input.

21. The graphical software installation tool of claim 19, wherein said means
for automatically determining access controls comprises:

means for automatically determining access controls for at least one of said files
based at least in part on the type of the file; and

means for automatically determining access controls for at least another one of
said files based at least in part on the location of the file.

22. A method for installing an application in a trusted operating system,
comprising:

enabling selection of an application from one or more applications;
enabling association of said selected application with a compartment of the
trusted operating system; and

automatically installing said selected application in said selected compartment in
response to said association of said selected application with said selected compartment.

23. The method of claim 22, wherein said enabling association of said selected application comprises:

enabling dragging of a graphical representation of said selected application towards a graphical representation of said selected compartment; and

enabling dropping of said graphical representation of said selected application on said graphical representation of said selected compartment.

24. The method of claim 23, wherein said enabling dropping of said graphical representation of said selected application on said graphical representation of said selected compartment comprises enabling dropping of said graphical representation of said selected application in close proximity to said graphical representation of said selected compartment.

25. The method of claim 22, further comprising:

automatically determining access controls for one or more files associated with said selected application;

automatically setting said determined access controls for said one or more files;

displaying said access controls along with the files with which said access controls are associated; and

modifying said access controls in response to a user input.

EVIDENCE APPENDIX

None

RELATED PROCEEDINGS APPENDIX

None